PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference PCT-0414	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
PCT/JP2004/013768	21.09.2004	22.09.2003					
International Patent Classification (IPC) or nati-	onal classification and IPC						
	401/14, 401/02, 401/ 31/496, 31/454, 31/4	12, 409/12, A61K31/4545, 1523					
Applicant BANYU PHARMACEUTICAL	CO., LTD.						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of							
3. This report is also accompanied by A	NNEXES, comprising:						
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:					
		en amended and are the basis for this report and/or Rule 70.16 and Section 607 of the Administrative					
		considers contain an amendment that goes beyond ated in item 4 of Box No. I and the Supplemental					
	Bureau only) a total of (indicate type and nur	mber of electronic carrier(s))					
		, containing a sequence listing and/or tables					
related thereto, in computer Section 802 of the Administ		pplemental Box Relating to Sequence Listing (see					
4. This report contains indications relati	ng to the following items:						
Box No. I Basis of the	: report						
Box No. II Priority							
Box No. III Non-establi	ishment of opinion with regard to novelty, in	ventive step and industrial applicability					
Box No. IV Lack of uni	ity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain doc	cuments cited						
Box No. VII Certain def	ects in the international application						
Box No. VIII Certain obs	servations on the international application						
Date of submission of the demand	Date of completion of	of this report					
Name and mailing address of the IPEA/JP	Authorized officer	Authorized officer					
Facsimile No.	Telephone No.						

International application No.
PCT/JP2004/013768

Box	x No. I Basis of the report		
1.	With regard to the language, this report is based on the international indicated under this item.	ional application in the language in which	it was filed, unless otherwise
	This report is based on translations from the original language which is the language of a translation furnished for the pur international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12 international preliminary examination (Rule 55.2 and	rposes of:	
2.	With regard to the elements of the international application, the receiving Office in response to an invitation under Article 14 a this report): the international application as originally filed/furnished the description:	are referred to in this report as "origina	lly filed" and are not annexed to
	pages		as originally filed/furnished
	pages*		
	pages*	received by this Authority on	
	the claims:		
	nos.		as originally filed/furnished
1	nos.*	as amended (together with	any statement) under Article 19
	nos.*	received by this Authority on	
1	nos.*		***
	the drawings:		
Ī	sheets		as originally filed/furnished
	sheets*	received by this Authority on	us originally most unioned
	sheets*		
	a sequence listing and/or any related table(s) – see Supple		·
		The section of the se	
3.	The amendments have resulted in the cancellation of:		
	the description, pages		
	the claims, nos.		
	the drawings, sheets/figs		
	the sequence listing (specify):		-
	any table(s) related to sequence listing (specify):		
4.	This report has been established as if (some of) the ame they have been considered to go beyond the disclosure as		
	the description, pages		
	the claims, nos.		
	the drawings, sheets/figs		
	the sequence listing (specify):		
	any table(s) related to sequence listing (specify):		
	If item 4 applies, some or all of those sheets may be marked "s		

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Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	3-15	YES
		Claims	1, 2	_ NO
	Inventive step (IS)	Claims	3-10, 13-15	YES
		Claims	1, 2, 11, 12	мо
	Industrial applicability (IA)	Claims	1-15	YES
		Claims		NO
l				

2. Citations and explanations (Rule 70.7)

Document 1: WO 02/099388 A2

Document 2: JP 10-324695 A

Document 3: JP 5-78316 A

Document 4: WO 02/076925 A2

Document 5: JP 2001-522836 A

I. Claims 1 and 2

The invention set forth in claims 1 and 2 lacks novelty and does not involve an inventive step in the light of document 1 or document 2.

The compounds disclosed in document 1 (examples 2 and 3) and the compounds disclosed in document 2 (preparation example 219) include the compounds that are represented by general formula (I) set forth in the present application.

II. Claims 11 and 12

The inventions set forth in claims 11 and 12 do not involve an inventive step in the light of document 1.

Document 1 indicates that the compounds represented by formula (I) are effective against diseases such as diabetes, hyperlipemia and Alzheimer's disease (refer to page 21, line 1 to page 24, line 21), and thus it would

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

have been easy for a person skilled in the art to conceive of attempting to confirm whether the compounds set forth in examples 2 and 3, which are specific examples of compounds that are represented by formula (I), exhibit a pharmacological activity in relation to the abovementioned diseases.

III. Claims 3 to 10 and 13 to 15

The inventions set forth in claims 3 to 10 and 13 to 15 are novel and involve an inventive step in relation to documents 1 to 5.

The compounds set forth in claims 3 to 10 of the present application are not disclosed or suggested in either document 1 or document 2.

Meanwhile, document 3 discloses 4-piperidinyl piperidine derivatives wherein a phenyl group has been bonded to the nitrogen atom; however, document 3 does not disclose or suggest the compounds that are set forth in claims 3 to 10 of the present application.

In addition, documents 4 and 5 disclose compounds that exhibit an antagonizing action in relation to the histamine H3 reactor; however, the base structures thereof differ from the base structures of the compounds that are set forth in the present application.

Furthermore, it cannot be considered to have been easy for a person skilled in the art to conceive of the compounds that are set forth in claims 3 to 10 of the present application, even with consideration of the disclosures in documents 1 to 5.

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			FC1/	70P2004/013/06	
ox No. VI	Certain documents cited				
Certain pu	blished documents (Rule 70.10)				
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim (day/month/year)	
WO	04/037257 A1	06.05.2004	23.10.2003	23.10.2002	
[E	x]				
WO	04/069792 A2	19.08.2004	02.02.2004	03.02.2003	
[E	x]				
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. Non-writt	ten disclosures (Rule 70.9)				
. INOIP-WIII	ten discrosures (Ruie 70.7)			Date of written disclosure	
	*** 1 0 10 1	D . C	lisclosure refe	rring to non-written disclosure	
	Kind of non-written disclosure	Date of non-written of day/month/ye			
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

The Cover Sheet

International Patent Classification (IPC) or national classification and IPC:

(IntCl⁷) 31/4535, 31/506, A61P43/00, 3/04, 3/10, 5/00, 3/06, 19/06, 9/10, 9/04, 9/12, 13/12, 25/20, A61P25/24, 25/22, 25/08, 25/18, 25/28, 25/16, 25/02, 25/32, 25/36